

ABSTRACT OF THE DISCLOSURE

A cooling system for an electric motor of a vehicle comprises an electric motor which drives the vehicle, a reduction gear which adjusts a driving force of an output shaft
5 of the electric motor and transmits the driving force to a drive shaft, and an in-shaft refrigerant passage provided in a shaft of the reduction gear and the output shaft of the electric motor. In the cooling system, a refrigerant which has passed through the in-shaft refrigerant passage is
10 collected outside a motor case housing the electric motor, and is circulated.